Railing Purpose

- To identify the edge of the bridge to the traffic.
- To prevent traffic or pedestrians from falling off the bridge.
- To separate vehicular and pedestrian traffic.
Types of Rail Systems

- State Bridges
  - Primarily Concrete Barrier

- County/Secondary Roads
  - Steel Bridge Railing
Crash Testing Requirements

- Bridge rail systems are crash tested, and cannot be modified in any manner.
Concrete Barrier

- Placement
- Finishing and Curing
Secondary Roads Railing

- SL-1 Bridge Rail
- Type T101 Bridge Rail
- Type T115 Bridge Rail
Fabrication, Delivery and Handling

- Traffic rail needs to be built in shop that is AISC certified in simple steel bridge structures.
- Traffic and pedestrian need shop plans no matter what size.
Bridge Sidewalk Railing

- Steel Railing, Sidewalk
  - Chain Link Fence
  - Curved Over Top

- Special Steel Railing
Erection

- Posts shall be set normal to grade
- Welders need to be SDDOT certified (green Card)
- Welds need to be ground smooth and have finish applied according to the shop-plans.
Questions???